



Postdoctoral Fellow in Genetic Epidemiology: Memorial Sloan Kettering Cancer Center

Memorial Sloan Kettering Cancer Center (MSK) is one of the world's premier cancer centers, committed to exceptional patient care, leading-edge research, and superb educational programs. The blending of research with patient care is at the heart of everything we do. The institution is a comprehensive cancer center whose purposes are the treatment and control of cancer, the advancement of biomedical knowledge through laboratory and clinical research, and the training of scientists, physicians, and other health care workers.

We are seeking a highly motivated candidate interested in integrative omics studies focused on understanding the genetic architecture of breast cancer particularly triple negative breast cancer (TNBC). The candidate will have the opportunity to analyze single cell RNA-seq and ATAC-seq data generated from either normal breast tissues or adjacent normal tissues collected from TNBC patients. With integration of GWAS data from Breast Cancer Association Consortium (BCAC), the study aims to facilitate the understanding of cell-of-origin of TNBC, as well as to identify potentially causal transcription factors and genes involved in the genetic predisposition of this aggressive subtype of breast cancer. The role of identified candidate genes will be verified using various functional validation assays in cancer cell lines and human organoid models. The candidate will also have the opportunity to participate in work related to methodology development. The postdoctoral fellow will be mentored by Dr. Xiang Shu and Dr. Xinjun Wang for a period of two years. The Full list of publications of Dr. Shu:

<https://www.ncbi.nlm.nih.gov/myncbi/1-Wzd30p7ZKQG/bibliography/public/> and Dr. Wang:

<https://www.ncbi.nlm.nih.gov/myncbi/xinjun.wang.3/bibliography/public/>

The ideal candidate should have:

- PhD degree in epidemiology, statistics/biostatistics, bioinformatics, human genetics, or a related field
- Solid methodological training in quantitative science, be comfortable working with large data sets, proficient in at least one of the statistical programming languages R/Python and have experience working on Unix/Linux systems and shell scripting
- Experience in GWAS and (bulk/single cell) omics data analysis

Interested applicants should please email their CV, a letter addressed to Dr. Shu outlining their interest, as well as names/contact information of three references to:

Maria Andrade Aray
Assistant to the Chairman
andradm@mskcc.org

Salary: \$55,439 – 100,940

MSK is an equal opportunity and affirmative action employer committed to diversity and inclusion in all aspects of recruiting and employment. All qualified individuals are encouraged to apply and will receive consideration without regard to race, color, gender, gender identity or expression, sexual orientation, national origin, age, religion, creed, disability, veteran status, or any other factor which cannot lawfully be used as a basis for an employment decision.

Federal law requires employers to provide reasonable accommodation to qualified individuals with disabilities. Please tell us if you require a reasonable accommodation to apply for a job or to perform your job. Examples of reasonable accommodation include making a change to the application process or work procedures, providing documents in an alternate format, using a sign language interpreter, or using specialized equipment.

For other job opportunities within our department, please see [here](#).